

WHAT IS CLAIMED IS:

1. The user identification method using electronic identification system that includes electronic identification facilities connected through telecommunication facilities and consisting of the following stages: forming of the users database in each electronic identification feature and the system users identification, in which connection during the database forming stage the following operations are executed:
 - a) Identification of living matter presence on the identification surface of one of the identification facilities while the user's hand is placed on the surface,
 - b) The hand scanning by the identification facility subject to presence of living matter on the identification surface,
 - c) Forming of the user's geometry parameters set corresponding to the hand characteristic parameters by the identification facility,
 - d) Converting of the above set into the identification code by the identification facility,
 - e) Entry of the identification code and the individual information on the user in the identification facility memory unit database,
 - f) Transmitting of the identification code and the individual information on the user to the other identification facilities constituting electronic identification system through telecommunication facilities,
 - g) Entry of the identification code and the individual information on the user in the identification facility memory unit database; during the identification stage operations from a) to d) are executed in series and then the following operations are executed:
 - h) Comparing of the user's individual code to latter extracted from the identification facility memory unit database,
 - i) Displaying on the identification facility monitor individual information stored together with the identification code in the identification facility memory unit database subject to positive result of comparing, and
 - j) Forming of a permissive access signal sent to execution facility.
2. The method of claim 1 by the following: converting of the user's identification geometry parameters set corresponding to the hand characteristic parameters into the user identification code is executed by using at least a single converting algorithm selected from different given converting algorithms.

3. The method of claim 2 by automatic selection of converting algorithm.
4. The method of claim 2 by selection of converting algorithm made by the operator.
5. The method of claim 1 by the following: while comparing of the user's individual code to latter extracted from the identification facility memory unit database given allowed errors of the identification codes lack of coincidence are used.
6. The method of claim 1 by the following: should the result of comparing is negative then rejecting access signal is displayed on the identification facility monitor.
7. Electronic identification system containing electronic identification facilities connected to each other through telecommunication facility and each electronic identification facility represents a device for biometrical personal identification that pertains to the hand characteristic geometry sizes and is designed to provide possibility of:
 - a) Identification of living matter presence on the identification surface while the user's hand is placed on the surface and the hand scanning subject to presence of living matter,
 - b) Forming of the users database by forming the user identification geometry parameters set corresponding to the hand characteristic parameters and converting of the above set into the user identification code and its entry in database;
 - c) Transmitting of the identification code and the individual information on the user to the other identification facilities to entry the code in question and individual information in identification facility database,
 - d) The user identification by comparing its individual code to reference individual user's code extracted from identification facility database and individual information displaying, which is stored in database together with the individual user code subject to the positive result of comparing;
 - e) Forming of a permissive access signal sent to execution facility.
8. Device for biometrical personal identification that pertains to the hand characteristic geometry sizes containing the following:
 - a) Identification surface designed to identify living matter when the user places its hand on the surface,
 - b) Device illuminating the user's hand designed to create parallel beam of light in the identification surface area,

- c) The user's hand scanning device including photo-cell with memory unit only subject to presence of living matter on the identification surface,
 - d) Identification processing device connected to the user's hand scanning device.
9. Device according to claim 8 in which the illuminating facility designed to create additional beam of light in the identification surface area is equipped with biconvex lens with a single parabolic surface orientated in such a way that its optical axis is transversely to the identification surface.